377 3201 45 2 1

최백준 choi@startlink.io

```
1 #include <iostream>
 2 using namespace std;
 3 char a[33][33];
 6 int n, m;
 return 0 \le x \&\& x < n \&\& 0 \le y \&\& y < m;
 8
                                   प्टिनिक्स कुर्न अल्डा
 9 }
  int go int x, int
       int ans = -1
11
12
       if (cnt == 0) {
                                      KK,
13
            return 0;
14
       for (int k=0; k<4; k++) {</pre>
15
            int \overline{nx} = x + dx[k];
16
17
            int ny = y+dy[k];
            while (ok(nx, ny) && a[nx][ny]
18
                a[nx][ny] =
19
20
21
                nx += dx[k]
                ny += dy[k];
22
23
24
            nx -= dx[k];
25
            ny -= dy[k];
               (!(x == nx \&\& y == ny)) {
26
                int (temp) = go (nx)
27
                                       cnt);
28
                if (temp !=-1
29
                    if (ans == -1 || ans > temp(1) {
30
                         ans = temp(1)
31
                }
32
33
34
            while (!(x == nx \&\& y == ny)) {
35
                a[nx][ny] = (.';)
36
                cnt += 1;
37
                nx -= dx[k];
38
                ny -= dy[k];
39
            }
40
41
       return ans;
42 }
43 int main() {
       int tc = 1;
44
       while (cin \gg n \gg m) {
45
            int cnt = 0;
46
            for (int i=0; i<n; i++) {</pre>
47
                cin >> a[i];
48
49
                for (int j=0; j<m; j++) {
                    if (a[i][j] == '.') {
50
51
                         cnt += 1;
52
53
                }
54
55
            int ans = -1;
56
            for (int i=0; i<n; i++) {</pre>
57
                for (int j=0; j<m; j++) {
                    if (a[i][j] -- '-') {
58
                         a[i][j] = '#';
59
                         int temp = go(i, j, cnt-1);
60
                        if (temp != -1) {
61
                             if (ans == -1 \mid \mid ans > temp) {
62
63
                                 ans = temp;
                             }
64
65
66
                         a[i][j] = \overline{\cdot \cdot \cdot \cdot}
67
68
                }
            }
69
70
            cout << "Case " << tc << ": " << ans << '\n';
71
            tc += 1;
72
```

77

79

78 }

}

Java

73

75

74 }

return 0;

결과

맞았습니다!!

메모리

1988 KB

시간

120 ms

코드 길이

1896 B

```
1 import java.util.*;
 2 public class Main {
       static char[][] a;
 3
       static final int[] dx = \{0,0,1,-1\};
 4
       static final int[] dy = \{1,-1,0,0\};
       static int n, m;
       static boolean ok(int x, int y) {
 8
            return 0 \le x \&\& x < n \&\& 0 \le y \&\& y < m;
 9
10
       static int go(int x, int y, int cnt) {
            int ans = -1;
11
            if (cnt == 0) {
12
13
                return 0;
            }
14
15
            for (int k=0; k<4; k++) {
16
                int nx = x+dx[k];
17
                int ny = y+dy[k];
18
                while (ok(nx, ny) && a[nx][ny] == '.') {
                    a[nx][ny] = '#';
19
20
                    cnt -= 1;
21
                    nx += dx[k];
22
                    ny += dy[k];
23
                }
24
                nx -= dx[k];
25
                ny -= dy[k];
                if (!(x == nx \&\& y == ny)) {
26
27
                    int temp = go(nx, ny, cnt);
                    if (temp != -1) {
28
                        if (ans == -1 \mid \mid  ans > temp+1) {
29
30
                             ans = temp+1;
31
                        }
32
                    }
33
                while (!(x == nx \&\& y == ny)) {
34
35
                    a[nx][ny] = '.';
36
                    cnt += 1;
37
                    nx -= dx[k];
38
                    ny -= dy[k];
39
                }
40
            }
41
            return ans;
42
43
       public static void main(String[] args) {
            Scanner sc = new Scanner(System.in);
44
45
            int tc = 1;
           while (sc.hasNextInt()) {
46
                n = sc.nextInt();
47
                m = sc.nextInt();
48
                a = new char[n][m];
49
                int cnt = 0;
50
                for (int i=0; i<n; i++) {
51
                    a[i] = sc.next().toCharArray();
52
53
                    for (int j=0; j<m; j++) {</pre>
                        if (a[i][j] == '.') {
54
55
                             cnt += 1;
56
57
                    }
58
                }
59
                int ans = -1;
                for (int i=0; i<n; i++) {
60
                    for (int j=0; j<m; j++) {</pre>
61
                        if (a[i][j] == '.') {
62
63
                             a[i][j] = '#';
                             int temp = go(i, j, cnt-1);
64
                             if (temp != -1) {
65
66
                                 if (ans == -1 \mid \mid ans > temp) {
67
                                     ans = temp;
68
                                 }
69
                             a[i][j] = '.';
70
71
                        }
72
                    }
                }
73
74
                System.out.printf("Case %d: %d\n", tc, ans);
75
                tc += 1;
76
           }
```

메모리 시간 결과 코드 길이 맞았습니다!! 15404 KB 384 ms 2409 B

8982번 - 수족관 1 baekjoon

C++14

```
1 #include <iostream>
 2 using namespace std;
 3 int bottom[40001];
 4 bool hole [40001];
 5 int top[40001];
 6 int main() {
       for (int i=0; i <= 40000; i++) {
           bottom[i] = -1;
            nole[i] = false
10
11
       int n;
12
       cin >> (n;
13
14
15
       int x, y;
16
       cin >> x >> y;
       for (int i=0; i<n; i++) {</pre>
17
           int x1, y1, x2, y2;
18
                                                        (22 AT)
           cin >> x1 >> y1 >> x2 >> y2;
19
           for (int j=x1+1; j \le x2; j++) {
20
                i<del>f (bottom[j]</del>
21
22
                    bottom[j] = y1;
23
24
           }
25
       cin >> x >> y;
26
27
       int m;
28
       cin >> m;
       while (\underline{m--}) {
30
           int x1, y1, x2, y2;
           cin >> x1 >> y1 >> x2 >> y2;
31
32
           for (int i=x1+1; i<=x2; i++) {
                hole[i] = true;
33
           }
34
35
36
       for (int i=1; i<=40000; i++) {
37
           if (bottom[i] == -1) continue;
                                                  0
           if (hole[i] == false) continue;
38
           int surface = bottom[i];
39
           for (int j=i; j>=1:(i--) {
40
                if (bottom[j] == -1) break;
41
42
                surface = mir(surface, bottom[j]);
                top[j] = (max)(top[j], surface);
43
44
           }
45
           surface = bottom[i];
           for (int j=i+1; j <= 40000; j++) {
46
                if (bottom[j] == -1) break;
47
                surface = min(surface, bottom[j]);
48
                top[j] = max(top[j], surface);
49
           }
50
51
       long long ans = 0;
52
       for (int i=1; i<=40000; i++)
53
           if (bottom[i] == -1) continue;
54
           if (bottom[i] > top[i]) {
55
                ans += bottom[i] - top[i];
56
           }
57
58
       cout << ans << '\n';
59
```

맞았습니다!! 2340 KB 1736 ms 1564 B

시간

코드 길이

메모리

1

Java

60

62

61 }

return 0;

결과

결과

```
1 import java.util.*;
 2 public class Main {
       static int[] bottom = new int[40001];
       static boolean[] hole = new boolean[40001];
       static int[] top = new int[40001];
       public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
 8
           Arrays.fill(bottom, −1);
           Arrays.fill(hole, false);
 9
           int n = sc.nextInt();
10
11
           n = 2;
           n /= 2;
12
           sc.nextInt(); sc.nextInt();
13
           for (int i=0; i<n; i++) {</pre>
14
               int x1 = sc.nextInt();
15
               int y1 = sc.nextInt();
16
17
               int x2 = sc.nextInt();
               int y2 = sc.nextInt();
18
               for (int j=x1+1; j<=x2; j++) {
19
                    if (bottom[j] == -1 \mid | bottom[j] < y1) {
20
                        bottom[j] = y1;
21
22
                    }
23
               }
24
           }
25
           sc.nextInt(); sc.nextInt();
           int m = sc.nextInt();
26
           while (m-- > 0) {
27
               int x1 = sc.nextInt();
28
29
               int y1 = sc.nextInt();
               int x2 = sc.nextInt();
30
               int y2 = sc.nextInt();
31
32
               for (int i=x1+1; i<=x2; i++) {
33
                   hole[i] = true;
34
               }
35
           }
36
           for (int i=1; i<=40000; i++) {
37
               if (bottom[i] == -1) continue;
38
               if (hole[i] == false) continue;
39
               int surface = bottom[i];
40
               for (int j=i; j>=1; j--) {
                   if (bottom[j] == -1) break;
41
42
                    surface = Math.min(surface, bottom[j]);
43
                   top[j] = Math.max(top[j], surface);
44
               surface = bottom[i];
45
46
               for (int j=i+1; j<=40000; j++) {
47
                    if (bottom[j] == -1) break;
                    surface = Math.min(surface, bottom[j]);
48
49
                   top[j] = Math.max(top[j], surface);
50
               }
51
           }
52
           long ans = 0;
53
           for (int i=1; i<=40000; i++) {
               if (bottom[i] == -1) continue;
54
55
               if (bottom[i] > top[i]) {
56
                   ans += bottom[i] - top[i];
57
               }
58
           }
59
           System.out.println(ans);
60
       }
61 }
62
```

맞았습니다!! 32968 KB 2200 ms 2040 B

시간

코드 길이

메모리

8982번 - 수족관 1 baekjoon

C++14

```
1 #include <iostream>
 2 #include <map>
 3 #include <vector>
 4 using namespace std;
 5 int main() {
       int n;
       cin >> n;
       n = 2;
       n /= 2;
       vector<int> bottom(n, −1);
10
       vector<bool> hole(n, false);
11
12
       vector<int> top(n, 0);
       vector<int>(width(n, 0);
13
       map<int,int> dict;
14
15
       int x, y;
16
       cin >> x >> y;
       for (int i=0; i<n; i++) {</pre>
17
18
           int x1, y1, x2, y2;
           cin >> x1 >> y1 >> x2 >> y2;
19
           bottom[i] = y1;
20
21
           width[i] = (x2-x1);
           dict(32) = i;
22
23
24
       cin >> x >> y;
25
       int m;
26
       cin >> m;
27
       for (int i=0; i<n; i++) {</pre>
28
           int x1, y1, x2, y2;
29
           cin >> x1 >> y1 >> x2 >> y2;
30
           int index = dict[x2];
           hole[index] = true;
31
32
33
       for (int i=0; <u>i<n; i++</u>) {
           if (hole[i] == false) continue;
34
            int surface = bottom[i];
35
36
           for (int j=i; j>=0; j--) {
37
                surface = min(surface, bottom[j]);
38
                top[j] = max(top[j], surface);
39
            }
           surface = bottom[i];
40
           for (int j=i+1; j<n; j++) {</pre>
41
                surface = min(surface, bottom[j])
42
43
                top[j] = max(top[j], surface);
44
45
       long long ans = 0;
46
47
       for (int i=0; i<n; i++) {</pre>
           if (bottom[i] > top[i]) {
48
                ans += (long long)(bottom[i] - top[i]) * width[i];
49
           }
50
51
52
       cout << ans << '\n';</pre>
       return 0;
53
54 }
```

Java

55

결과

맞았습니다!!

```
1 import java.util.*;
 2 public class Main {
       public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
 5
           int n = sc.nextInt();
 6
           n = 2;
           n /= 2;
           int[] bottom = new int[n];
 8
           Arrays.fill(bottom,-1);
 9
           boolean[] hole = new boolean[n];
10
           int[] top = new int[n];
11
           int[] width = new int[n];
12
           HashMap<Integer, Integer> dict = new HashMap<>();
13
           sc.nextInt(); sc.nextInt();
14
           for (int i=0; i<n; i++) {</pre>
15
16
               int x1 = sc.nextInt();
17
               int y1 = sc.nextInt();
               int x2 = sc.nextInt();
18
               int y2 = sc.nextInt();
19
20
               bottom[i] = y1;
               width[i] = (x2-x1);
21
22
               dict.put(x2,i);
23
           }
           sc.nextInt(); sc.nextInt();
24
25
           int m = sc.nextInt();
           for (int i=0; i<m; i++) {</pre>
26
27
               int x1 = sc.nextInt();
28
               int y1 = sc.nextInt();
29
               int x2 = sc.nextInt();
               int y2 = sc.nextInt();
30
               int index = dict.get(x2);
31
               hole[index] = true;
32
33
           }
           for (int i=0; i<n; i++) {</pre>
34
               if (hole[i] == false) continue;
35
36
               int surface = bottom[i];
37
               for (int j=i; j>=0; j--) {
                    surface = Math.min(surface, bottom[j]);
38
39
                    top[j] = Math.max(top[j], surface);
40
41
               surface = bottom[i];
42
               for (int j=i+1; j<n; j++) {
                    surface = Math.min(surface, bottom[j]);
43
                    top[j] = Math.max(top[j], surface);
44
               }
45
           }
46
           long ans = 0;
47
           for (int i=0; i<n; i++) {</pre>
48
               if (bottom[i] > top[i]) {
49
                    ans += (long)(bottom[i] - top[i]) * width[i];
50
51
               }
52
           }
53
           System.out.println(ans);
54
55 }
```

메모리

2124 KB

시간 468 m 코드 길이

1808 B

코드 길이

1360 B

결과

56

메모리

```
1 #include <iostream>
  2 #include <cstring>
  3 #include <tuple>
  4 using namespace std;
  5 int a[10][10]; <
  6 bool c[10][10];
  7 bool c2[10][10];
  8 bool c3[10][10];
  9 bool domino[10][10];
 10 int n=9;
 11 int dx[] = \{0, 1\};
 12 int dy[] = \{1, 0\};
 13 pair<int, int> convert(string s) {
        return make_pair(s[0]-'A',s[1]-'1');
 14
 15 }
 16 int square(int x, int y) {
        return (x/3)*3+(y/3)
 17
 18
 19 bool can(int x, int y, int num) {
        return c(x) [num] == false && c2(y) [num] == false && c3 [square(x,y)] [num] == false;
 20
 21 }
 22 void check(int x, int y, int fum) bool what) {
        c[x][num] = what;
 23
 24
        c2[y][num] = what;
 25
        c3 square(x,y)][num] = what;
 26 }
 27 bool check_range(int x) int(y)
        return 0 <= x && x < n && 0 <= y && y < n;
 28
 29 }
 30 bool go(int z) {
        if (z == 81) {
 31
                                                       8
            for (int i=0; i<n; i++) {
 32
                 for (int j=0; j<n; j++) {</pre>
 33
                     cout << a[i][j];</pre>
 34
 35
                cout << '\n';</pre>
 36
 37
            return true
 38
 39
                            XSS 'Acc
        int x = z/n;
 40
        int y = z_n;
 41
        if (a[x][y])!= 0) {
 42
 43
            return go(z+1);
        } else {
 44
            for (int k=0; k<2; k++) {
 45
                 int nx = x+dx[k];
 46
                                                         NXNA
                 int ny = y+dy[k];
 47
                 if (!check_range(nx,ny)) {
 48
                     continue;
 49
 50
                                                      (x,y) ]
                 if (a[nx][ny] != 0) continue;
 51
                 for (int i=1; i<=9; i++) {
 52
                     for (int j=1; j<=9; j++) {</pre>
 53
                         if (i == j) continue;
 54
                     _____if ((domino[i][j])) continue;
 55
                            (can(x,y(i))&& can(nx,ny,j)
 56
                             check(x,y,i,true);
 57
                             check(nx,ny,j,true);
 58
                             domino[i][j] = domino[j][i] = true;  
 59
 60
                             a[x][y] = i;
                             a[nx][ny] = j;
 61
                             if (go(z+1)) {
 62
 63
                                  retu<u>rn true</u>;
 64
                             check(x,y,i,false);
 65
                            check(nx,ny,j,f<u>alse</u>);
 66
                             domino[i][j] = domino[j][i] = false;
 67
                             a[x][y] = 0;
 68
                            \a[nx][ny] = 0; /
 69
 70
 71
 72
 73
 74
        }
        return false;
 75
 76 }
 77 int main() {
 78
        int tc=1;
        while (true) {
 79
            memset(c,false,sizeof(c));
 80
            memset(c2,false,sizeof(c2));
 81
            memset(c3,false,sizeof(c3));
 82
            memset(domino, false, sizeof(domino));
 83
            memset(a,0,sizeof(a));
 84
 85
            int m;
            cin >> m;
 86
            if (m == 0) break;
 87
            for (int i=0; i<m; i++) {
 88
                int n1, n2;
 89
                 string s1, s2;
 90
                cin >> n1 >> s1 >> n2 >> s2;
 91
                int x1,y1,x2,y2;
 92
                tie(x1,y1) = convert(s1);
 93
                tie(x2,y2) = convert(s2);
 94
                `a[x1][y1] = n1; \
 95
                a[x2][y2] = n2;
 96
                 domino[n1][n2] = domino[n2][n1] = true;
 97
                 check(x1,y1,n1,true);
 98
                 check(x2,y2,n2,true);
 99
100
            for (int i=1; i<=9; i++) {
101
                                                 012345478
102
                string s;
                                                 710
103
                cin >> s;
104
                int x,y;
105
                tie(x,y) = convert(s);
                a[x][y] = i;
106
                 check(x,y,i,true);
107
108
            cout << "Puzzle " << tc << '\n';</pre>
109
            go(0);
110
            tc += 1;
111
        }
112
        return 0;
113
114 }
```

```
115
           결과
                                    메모리
                                                              시간
                                                                                       코드 길이
         맞았습니다!!
                                    1992 KB
                                                              4 ms
                                                                                       3193 B
Java
    1 import java.util.*;
    2 public class Main {
          static int[][] a = new int[10][10];
    3
          static boolean[][] c = new boolean[10][10];
    4
          static boolean[][] c2 = new boolean[10][10];
    5
          static boolean[][] c3 = new boolean[10][10];
    6
          static boolean[][] domino = new boolean[10][10];
    7
          static final int n = 9;
    8
          static final int[] dx = \{0, 1\};
    9
          static final int[] dy = {1, 0};
   10
          static int square(int x, int y) {
   11
              return (x/3)*3+(y/3);
   12
          }
   13
          static boolean can(int x, int y, int num) {
   14
              return c[x][num] == false && c2[y][num] == false && c3[square(x,y)][num] ==
   15
      false;
   16
          static void check(int x, int y, int num, boolean what) {
   17
              c[x][num] = what;
   18
              c2[y][num] = what;
   19
              c3[square(x,y)][num] = what;
   20
          }
   21
          static boolean check_range(int x, int y) {
   22
               return 0 \le x \& x < n \& 0 \le y \& x < n;
   23
          }
   24
          static boolean go(int z) {
   25
              if (z == 81) {
   26
                   for (int i=0; i<n; i++) {
   27
                       for (int j=0; j<n; j++) {
   28
                           System.out.print(a[i][j]);
   29
   30
                       }
                       System.out.println();
   31
   32
   33
                   return true;
   34
              int x = z/n;
   35
              int y = z%n;
   36
              if (a[x][y] != 0) {
   37
                   return go(z+1);
   38
              } else {
   39
                   for (int k=0; k<2; k++) {
   40
                       int nx = x+dx[k];
   41
                       int ny = y+dy[k];
   42
                       if (!check_range(nx,ny)) {
   43
                           continue;
   44
                       }
   45
                       if (a[nx][ny] != 0) continue;
   46
                       for (int i=1; i<=9; i++) {
   47
                           for (int j=1; j<=9; j++) {</pre>
   48
                               if (i == j) continue;
   49
                               if (domino[i][j]) continue;
   50
                               if (can(x,y,i) && can(nx,ny,j)) {
                                   check(x,y,i,true);
   52
                                   check(nx,ny,j,true);
   53
                                   domino[i][j] = domino[j][i] = true;
   54
                                   a[x][y] = i;
   55
                                   a[nx][ny] = j;
   56
                                   if (go(z+1)) {
   57
                                        return true;
   58
                                   }
   59
                                   check(x,y,i,false);
   60
                                   check(nx,ny,j,false);
   61
                                   domino[i][j] = domino[j][i] = false;
   62
                                   a[x][y] = 0;
   63
                                   a[nx][ny] = 0;
   64
                               }
   65
   66
                       }
   67
                   }
   68
   69
              return false;
   70
          }
   71
          public static void main(String[] args) {
   72
              Scanner sc = new Scanner(System.in);
   73
              int tc=1;
   74
              while (true) {
   75
                   for (int i=0; i<10; i++) {
   76
                       Arrays.fill(c[i], false);
   77
                       Arrays.fill(c2[i], false);
   78
                       Arrays.fill(c3[i], false);
   79
                       Arrays.fill(domino[i], false);
   80
                       Arrays.fill(a[i], 0);
   81
   82
                   int m = sc.nextInt();
   83
                   if (m == 0) break;
   84
                   for (int i=0; i<m; i++) {</pre>
   85
                       int n1 = sc.nextInt();
   86
                       String s1 = sc.next();
   87
                       int n2 = sc.nextInt();
   88
                       String s2 = sc.next();
   89
                       int x1 = s1.charAt(0) - 'A';
   90
                       int y1 = s1.charAt(1) - '1';
   91
                       int x2 = s2.charAt(0) - 'A';
   92
                       int y2 = s2.charAt(1) - '1';
   93
                       a[x1][y1] = n1;
   94
                       a[x2][y2] = n2;
   95
                       domino[n1][n2] = domino[n2][n1] = true;
   96
                       check(x1,y1,n1,true);
   97
                       check(x2,y2,n2,true);
   98
   99
                   for (int i=1; i<=9; i++) {
  100
                       String s = sc.next();
  101
                       int x = s.charAt(0) - 'A';
  102
                       int y = s.charAt(1) - '1';
  103
                       a[x][y] = i;
  104
  105
                       check(x,y,i,true);
```

메모리 시간 코드 길이 결과 맞았습니다!! 14416 KB 168 ms 3981 B

106

107

108

109

110

111

113

112 }

}

}

go(0);

tc += 1;

System.out.println("Puzzle " + tc);

C++14

```
1 #include <iostream>
 2 #include <algorithm>
 3 using namespace std;
 4 int n;
 5 int a[500][500];
 6 int d[500][500];
 7 int dx[] = \{0,0,1,-1\};
                            (15) 이동 시강
 8 int dy[] = \{1,-1,0,0\};
 9 int go(int i, int j) {
       if (i < 0 || j < 0 || i >= n || j >= n) {
10
           return 0;
11
12
       if (d[i][j] != 0) {
13
           return d[i][j];
14
15
       d[i][j] = 1;
16
17
       for (int k=0; k<4; k++) {
           int x = i+dx[k];
18
19
           int y = j+dy[k];
           if (a[i][j] < a[x][y]) {
20
                d[i][j] = max(d[i][j], go(x, y) + 1);
21
22
           }
23
24
       return d[i][j];
25 }
26
27 int main() {
28
       cin >> n;
       for (int i=0; i<n; i++) {</pre>
        for (int j=0; j<n; j++) {
30
                cin >> a[i][j];
31
32
           }
33
       }
34
       int ans = 0;
       for (int i=0; i<n; i++) {</pre>
35
           for (int j=0; j<n; j++) {</pre>
36
37
                ans = max(ans, go(i, j));
38
           }
39
       }
40
       cout << ans << '\n';</pre>
41
       return 0;
42 }
43
```

시간

104 ms

코드 길이

868 B

Java

결과

맞았습니다!!

```
1 import java.util.*;
 2 public class Main {
       static int n;
 3
       static int[][] a = new int[500][500];
       static int[][] d = new int[500][500];
       static int[] dx = \{0,0,1,-1\};
       static int[] dy = \{1,-1,0,0\};
 8
       static int go(int i, int j) {
 9
           if (d[i][j] != 0) {
                return d[i][j];
10
           }
11
12
           d[i][j] = 1;
           for (int k=0; k<4; k++) {</pre>
13
                int x = i+dx[k];
14
15
                int y = j+dy[k];
16
                if (x < 0 \mid | x >= n \mid | y < 0 \mid | y >= n) continue;
17
                if (a[i][j] < a[x][y]) {
                    d[i][j] = Math.max(d[i][j], go(x, y) + 1);
18
19
                }
           }
20
           return d[i][j];
21
22
       }
23
       public static void main(String args[]) {
24
           Scanner sc = new Scanner(System.in);
25
           n = sc.nextInt();
26
           for (int i=0; i<n; i++) {</pre>
27
                for (int j=0; j<n; j++) {
28
                    a[i][j] = sc.nextInt();
29
                }
30
           }
31
           int ans = 0;
32
           for (int i=0; i<n; i++) {</pre>
33
                for (int j=0; j<n; j++) {
34
                    ans = Math.max(ans, go(i, j));
35
                }
36
           }
37
           System.out.println(ans);
38
       }
39 }
40
```

메모리

19440 KB

결과 메모리 시간 코드 길이 맞았습니다!! 106028 KB 1444 ms 1131 B

C++14

```
1 #include <iostream>
 2 #include <algorithm>
 3 using namespace std;
 4 struct Element {
       int row, col, val;
 6 };
 7 bool cmp(const Element &u, const Element &v) {
        return u.val > v.val;
 9 }
10 int a[500][500];
11 Element b[500*500];
12 int d[500][500];
13 int dx[] = \{0,0,1,-1\};
14 int dy[] = \{1,-1,0,0\};
15 int main() {
16
       int n;
       cin >> n;
17
18
       for (int i=0; i<n; i++) {
            for (int j=0; j<n; j++) {</pre>
19
                cin >> a[i][i];
20
                b[i*n+j].row = i;
21
                b[i*n+j].col = j;
22
23
                b[i*n+j].val = a[i][j];
24
25
       sort(b,b+n*n,cmp); \mathcal{U}_{\bullet}
26
        for (int i=0; i<n*n; i++) {</pre>
27
           int x = b[i].row;
28
29
            int y = b[i].col;
            d[x][y] = 1;
30
            // (x, y) \rightarrow (nx, ny)
31
            for (int k=0; k<4; k++) {
32
33
                 int nx = x+dx[k];
                 int ny = y+dy[k];
34
35
                if (nx < 0 \mid | nx >= n \mid | ny < 0 \mid | ny >= n) continue;
36
                if (a[x][y] < a[nx][ny]) {
                     d[x][y] = max(d[x][y],d[nx][ny]+1);
37
38
39
40
       int ans = 0;
41
42
       for (int i=0; i<n; i++) {</pre>
            for (int j=0; j<n; j++) {</pre>
43
                if (ans < d[i][j]) {</pre>
44
45
                     ans = d[i][j];
46
47
            }
48
       cout << ans << '\n';</pre>
49
```

Java

50

51 }

return 0;

결과

맞았습니다!!

```
1 import java.util.*;
 2 class Element implements Comparable<Element> {
       int row, col, val;
 3
       Element(int row, int col, int val) {
           this.row = row;
           this.col = col;
           this.val = val;
 8
 9
       public int compareTo(Element that) {
            if (this.val > that.val) return -1;
10
            else if (this.val < that.val) return 1;</pre>
11
           else return 0;
12
13
       }
14 }
15 public class Main {
       static int[] dx = \{0,0,1,-1\};
16
       static int[] dy = \{1,-1,0,0\};
17
       public static void main(String[] args) {
18
            Scanner sc = new Scanner(System.in);
19
20
            int n = sc.nextInt();
            int[][] a = new int[n][n];
21
            Element[] b = new Element[n*n];
22
            for (int i=0; i<n; i++) {</pre>
23
24
                for (int j=0; j<n; j++) {
25
                    a[i][j] = sc.nextInt();
                    b[i*n+j] = new Element(i,j,a[i][j]);
26
27
                }
28
            }
29
            Arrays.sort(b,0,n*n);
30
            int[][] d = new int[n][n];
            for (int i=0; i<n*n; i++) {</pre>
31
32
                int x = b[i].row;
33
                int y = b[i].col;
                d[x][y] = 1;
34
                // (x, y) \rightarrow (nx, ny)
35
36
                for (int k=0; k<4; k++) {</pre>
                    int nx = x+dx[k];
37
38
                    int ny = y+dy[k];
39
                    if (nx < 0 \mid | nx >= n \mid | ny < 0 \mid | ny >= n) continue;
                    if (a[x][y] < a[nx][ny]) {
40
                        d[x][y] = Math.max(d[x][y],d[nx][ny]+1);
41
42
                    }
43
                }
45
            int ans = 0;
46
            for (int i=0; i<n; i++) {
                for (int j=0; j<n; j++) {</pre>
47
48
                    if (ans < d[i][j]) {</pre>
                        ans = d[i][j];
49
50
                    }
51
                }
52
            }
53
            System.out.println(ans);
54
       }
55 }
```

메모리

6872 KB

시간

120 ms

코드 길이

1226 B

 결과
 메모리
 시간
 코드 길이

 맞았습니다!!
 96544 KB
 1828 ms
 1688 B

3085번 - 사탕 게임 baekjoon

C++14

```
1 #include <iostream>
 2 #include <vector>
 3 #include <algorithm>
 4 using namespace std;
 5 int check(vector<string> &a) {
       int n = a.size();
       int ans = 1;
       for (int i=0; i<n; i++) {</pre>
           int cnt = 1; 23
10
           for (int j=1; j<n; j++) {</pre>
11
               if (a[i][j] = a[i][j-1]) {
12
                   cnt += 1;
               } else {
13
14
                   cnt = 1;
15
16
               if (ans < cnt) ans = cnt;</pre>
17
           cnt = 1;
18
                                          ०त्रृ
           for (int j=1; j < n; j++) {
19
               if (a[j][i] == a[j-1][i]
20
                   cnt += 1;
21
               } else {
22
23
                   cnt = 1;
24
25
               if (ans < cnt) ans = cnt;</pre>
26
           }
27
28
       return ans;
29 }
30 int main() {
31
       int n;
32
       cin >> n;
33
       vector<string> a(n);
34
       for (int i=0; i<n; i++) {</pre>
35
           cin >> a[i];
          36
37
       int ans = 0;
       for (int i=0; i<n; i++) {</pre>
38
39
40
41
                   int temp = c(a);
42
                   if (ans < temp) ans = temp;</pre>
43
44
                   swap(a[i][j], a[i][j1]);
45
               if (1+1 < n) {
46
                   swap(a[i][j], a[i+1][j]);
47
                   int temp = check(a);
48
49
                   if (ans < temp) ans = temp;</pre>
                   swap(a[i][j], a[i+1/[j]);
50
51
52
           }
53
       }
                      '\n';
54
       cout <
55
       return
```

결과 메모리 시간 코드길이 맞았습니다!! 1988 KB 24 ms 1384 B

```
Java
```

56 }

57

```
1 import java.util.*;
 2 public class Main {
       static int check(char[][] a) {
            int n = a.length;
            int ans = 1;
 5
            for (int i=0; i<n; i++) {</pre>
 7
                int cnt = 1;
                for (int j=1; j<n; j++) {</pre>
 8
                    if (a[i][j] == a[i][j-1]) {
 9
10
                         cnt += 1;
                    } else {
11
12
                         cnt = 1;
13
14
                    if (ans < cnt) ans = cnt;</pre>
15
16
                cnt = 1;
                for (int j=1; j<n; j++) {</pre>
17
                    if (a[j][i] == a[j-1][i]) {
18
19
                         cnt += 1;
20
                    } else {
21
                         cnt = 1;
22
23
                    if (ans < cnt) ans = cnt;</pre>
24
25
26
            return ans;
27
28
       public static void main(String[] args) {
29
            Scanner sc = new Scanner(System.in);
30
            int n = sc.nextInt();
            char[][] a = new char[n][n];
31
32
            for (int i=0; i<n; i++) {</pre>
33
                a[i] = sc.next().toCharArray();
           }
34
35
            int ans = 0;
            for (int i=0; i<n; i++) {</pre>
36
                for (int j=0; j<n; j++) {</pre>
37
38
                    if (j+1 < n) {
39
                         char t = a[i][j]; a[i][j] = a[i][j+1]; a[i][j+1] = t;
40
                         int temp = check(a);
                         if (ans < temp) ans = temp;</pre>
41
42
                         t = a[i][j]; a[i][j] = a[i][j+1]; a[i][j+1] = t;
                    }
43
                    if (i+1 < n) {
44
45
                         char t = a[i][j]; a[i][j] = a[i+1][j]; a[i+1][j] = t;
                         int temp = check(a);
46
                         if (ans < temp) ans = temp;</pre>
47
48
                         t = a[i][j]; a[i][j] = a[i+1][j]; a[i+1][j] = t;
49
50
                }
51
            }
52
            System.out.println(ans);
53
       }
54 }
55
```

맞았습니다!! 12020 KB 180 ms 1737 B

시간

코드 길이

메모리

결과

```
1 #include <iostream>
 2 #include <algorithm>
 3 using namespace std;
 4 int a[1002][1002];
 5 int d[1002][1002][3];
 6 const int inf = 100000000;
 7 int main() {
       int n, m;
       cin >> n >> m;
       for (int i=1; i<=n; i++) {
10
           for (int j=1; j<=m; j++) {</pre>
11
12
               cin >> a[i][j];
           }
13
14
       fill(&d[0][0][0], &d[1001][1001][2]+1, -inf);
15
      d[1][1][1] = a[1][1];
16
       for (int j=2; j<=m; j++) {
17
           d[1][j][1] = d[1][j-1][1] + a[1][j];
18
19
       for (int i=2) i<=n; i++) {
20
           for (int j=1; j<=m; j++) {</pre>
21
               d[i][i][0] = max({d[i-1][j][0], d[i-1][j][1], d[i-1][j][2]}) + a[i][j];
22
               d[i][j([1]] = max(d[i][j-1][0], d[i][j-1][1]) + a[i][j];
23
24
           for (int(j=m), j=1), j=-) {
25
               d[i][j][2] = max(d[i][j+1][0], d[i][j+1][2]) + a[i][j];
26
           }
27
28
       cout << max({([n][m][0], d[n][m][1], d[n][2]}) << '\n';
29
30
       return 0;
31 }
32
         결과
                                                            시간
                                  메모리
                                                                                    코드 길이
```

228 ms

901 B

17676 KB

Java

맞았습니다!!

```
1 import java.util.*;
 2 public class Main {
       static int[][] a = new int[1002][1002];
       static int[][][] d = new int[1002][1002][3];
       static int inf = 100000000;
       public static void main(String args[]) {
           Scanner sc = new Scanner(System.in);
           int n = sc.nextInt();
 8
           int m = sc.nextInt();
 9
           for (int i=1; i<=n; i++) {</pre>
10
               for (int j=1; j<=m; j++) {</pre>
11
12
                    a[i][j] = sc.nextInt();
13
                }
14
           }
           for (int i=0; i<1002; i++) {
15
               for (int j=0; j<1002; j++) {</pre>
16
                    for (int k=0; k<3; k++) {
17
                        d[i][j][k] = -inf;
18
19
                }
20
21
           }
22
           d[1][1][1] = a[1][1];
           for (int j=2; j<=m; j++) {</pre>
23
                d[1][j][1] = d[1][j-1][1] + a[1][j];
24
           }
25
           for (int i=2; i<=n; i++) {</pre>
26
               for (int j=1; j<=m; j++) {
                    d[i][j][0] = Math.max(d[i-1][j][0], Math.max(d[i-1][j][1], d[i-1][j][2]))
28
   + a[i][j];
                    d[i][j][1] = Math.max(d[i][j-1][0], d[i][j-1][1]) + a[i][j];
29
30
                }
               for (int j=m; j>=1; j--) {
31
                    d[i][j][2] = Math.max(d[i][j+1][0], d[i][j+1][2]) + a[i][j];
32
33
               }
34
           }
           System.out.println(Math.max(d[n][m][0],Math.max(d[n][m][1],d[n][m][2])));
35
36
       }
37 }
38
39
```

결과 메모리 시간 코드 길이 맞았습니다!! 203496 KB 1516 ms 1313 B

```
1 #include <cstdio>
 2 #include <algorithm>
 3 #include <iostream>
 4 using namespace std;
 5 int a[1001][1001];
 6 int d[1001][1001];
 7 int main() {
       int n,m;
       scanf("%d %d",&n,&m);
       for (int i=1; i<=n; i++) {</pre>
10
            for (int j=1; j<=m; j++) {</pre>
11
12
                scanf("%1d",&a[i][j]);
13
            }
14
       }
15
       int ans = 0;
       for (int i=1; i<=n; i++) {</pre>
16
            for (int j=1; j<=m; j++) {</pre>
17
                if (a[i][j] == 0) {
18
19
                     continue;
20
                }
                d[i][j] = min({d[i-1][j-1], d[i-1][j], d[i][j-1]}) + 1;
21
22
                if (ans < d[i][j]) {</pre>
23
                     ans = d[i][j];
24
25
            }
26
       }
       cout << ans*ans << '\n';</pre>
27
28
       return 0;
29 }
30
          결과
                                    메모리
                                                                시간
                                                                                         코드 길이
       맞았습니다!!
                                   9816 KB
                                                               84 ms
                                                                                          678 B
```

Java

```
1 import java.util.*;
 2 public class Main {
       public static void main(String args[]) {
           Scanner sc = new Scanner(System.in);
 4
 5
           int n = sc.nextInt();
           int m = sc.nextInt();
 6
           int[][] a = new int[n+1][m+1];
 8
           int[][] d = new int[n+1][m+1];
           for (int i=1; i<=n; i++) {</pre>
 9
               String s = sc.next();
10
               for (int j=1; j<=m; j++) {
11
12
                    a[i][j] = s.charAt(j-1)-'0';
               }
13
           }
14
           int ans = 0;
15
16
           for (int i=1; i<=n; i++) {</pre>
17
               for (int j=1; j<=m; j++) {
                    if (a[i][j] == 0) {
18
19
                        continue;
20
                    }
21
                    d[i][j] = Math.min(Math.min(d[i-1][j-1], d[i-1][j]), d[i][j-1]) + 1;
22
                    if (ans < d[i][j]) {</pre>
                        ans = d[i][j];
23
24
25
               }
26
27
           System.out.println(ans*ans);
28
30
```

 결과
 메모리
 시간
 코드길이

 맞았습니다!!
 28884 KB
 412 ms
 897 B



코드플러스

https://code.plus

- 슬라이드에 포함된 소스 코드를 보려면 "정보 수정 > 백준 온라인 저지 연동"을 통해 연동한 다음, "백준 온라인 저지"에 로그인해야 합니다.
- 강의 내용에 대한 질문은 코드 플러스의 "질문 게시판"에서 할 수 있습니다.
- 문제와 소스 코드는 슬라이드에 첨부된 링크를 통해서 볼 수 있으며, "백준 온라인 저지"에서 서비스됩니다.
- 슬라이드와 동영상 강의는 코드 플러스 사이트를 통해서만 볼 수 있으며, 동영상 강의의 녹화와 다운로드, 배포와 유통은 저작권법에 의해서 금지되어 있습니다.
- 다른 경로로 이 슬라이드나 동영상 강의를 본 경우에는 codeplus@startlink.io 로 이메일 보내주세요.
- 강의 내용, 동영상 강의, 슬라이드, 첨부되어 있는 소스 코드의 저작권은 스타트링크와 최백준에게 있습니다.